



BMS2288.ST25.txt
SEQUENCE LISTING

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<120> PHARMACEUTICALS FOR THE IMAGING OF ANGIOGENIC DISORDERS

<130> BMS-2288

<140> US 10/622,246

<141> 2003-07-18

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<151> 2003-01-14

<150> US 09/599,295

<151> 2000-06-21

<150> US 09/281,474

<151> 1999-03-30

<150> US 60/080,150

<151> 1998-03-31

<150> US 60/112,715

<151> 1998-12-18

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<170> PatentIn version 3.2

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<220>
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<220>
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<220>
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 <223> cyclic amino acid

<220>
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 <223> D amino acid

<220>
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<400> 35

Arg Val Tyr Asp Gly
 1 5

<210> 36
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<220>
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<220>
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 1 5

<210> 37
 <211> 5
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<220>
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<220>
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<220>
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<220>
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 <223> D amino acid

<220>
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 <223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<400> 37

Arg Gly Asp Phe Lys
 1 5

<210> 38
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<220>
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<220>
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<220>
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 <223> D amino acid

<220>
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 <223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<400> 38

Arg Gly Asp Tyr Lys
 1 5

<210> 39
 <211> 12
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<220>
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<220>
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 <223> 99mTc (tricine) (TPPTS)

<220>
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 <223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid])

<220>
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 <223> cyclic amino acid

<220>
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 <223> D amino acid

<220>
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 <223> cyclic amino acid

<220>
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 <223> D amino acid

<400> 39

Phe Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
 1 5 10

<210> 40
 <211> 5
 <212> PRT
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<220>
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<220>
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<220>
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<220>
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 <222> (4)..(4)
 <223> Xaa = naphthyl alanine

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> D amino acid

<220>
 <221> MISC_FEATURE
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<400> 40

Arg Gly Asp Xaa Lys
 1 5

<210> 41
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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<220>
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 <223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid])

<220>
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 <223> cyclic amino acid

<220>
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 <223> Xaa = naphthyl alanine

<220>
 <221> MISC_FEATURE
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 <223> D amino acid

<220>
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 <222> (7)..(11)
 <223> cyclic amino acid

<220>
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 <222> (11)..(11)
 <223> Xaa = naphthyl alanine

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> D amino acid

<400> 41

Glu Lys Arg Gly Asp Xaa Lys Arg Gly Asp Xaa
 1 5 10

<210> 42
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<220>
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<220>
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 <222> (1)..(5)
 <223> cyclic amino acid

<220>
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 <223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]-18-amino-14-aza-4,7,10-oxo-15-octadecoyl)-3-aminopropyl)

<220>
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 <222> (4)..(4)
 <223> D amino acid

<400> 42

Arg Gly Asp Tyr Val
 1 5

<210> 43
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<220>
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<223> 99mTc (tricine) (TPPTS)

<220>
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<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]

<220>
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<222> (2)..(6)
<223> O cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(11)
<223> O cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> D amino acid

<400> 43

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Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1          5          10

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<210> 44
<211> 11
<212> PRT
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<220>
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<220>
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<220>
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<222> (2)..(2)
<223> (3-aminopropyl)

<220>
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<222> (2)..(2)
<223> D amino acid

<220>
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<223> O cyclic amino acid

<220>

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<222> (7)..(7)

<223> (3-aminopropyl)

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(11)

<223> O cyclic amino acid

<400> 44

Glu Tyr Val Arg Gly Asp Tyr Val Arg Gly Asp
1 5 10

<210> 45

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

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<222> (1)..(1)

<223> 99mTc (tricine) (TPPTS)

<220>

<221> MISC_FEATURE

<222> (1)..(5)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido])

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> D amino acid

<400> 45

Arg Gly Asp Lys Val
1 5

<210> 46

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

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<223> 99mTc (tricine) (TPPTS)

<220>

<221> MISC_FEATURE

<222> (1)..(5)

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<220>

<221> MISC_FEATURE

<222> (1)..(3)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> ([2-[[[5-[carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid])

<400> 46

Lys Phe Asp Gly Arg

1 5

<210> 47

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthethic Construct

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<222> (1)..(1)

<223> 99mTc (tricine) (TPPTS)

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> [2-[[[5-carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid]

<220>

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<222> (2)..(4)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (2)..(6)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(11)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(9)

<223> D amino acid

<400> 47

Glu Lys Phe Asp Gly Arg Lys Phe Asp Gly Arg

1 5 10

<210> 48
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> 99mTc (tricine) (TPPTS)

<220>
 <221> MISC_FEATURE
 <222> (1)..(3)
 <223> D amino acid

<220>
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 <222> (1)..(5)
 <223> cyclic amino acid

<220>
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<400> 48

Phe Lys Asp Gly Arg
 1 5

<210> 49
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> a-N-methyl

<220>
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 <223> cyclic amino acid

<220>
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<220>
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 <223> (N-[[[5-[carbonyl]-2-pyridinyl]diazenido])

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> D amino acid

<400> 49

Arg Gly Asp Xaa Lys
 1 5

<210> 50
 <211> 5
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<220>
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<220>
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 <223> Xaa = citrulline

<220>
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 <222> (1)..(1)
 <223> 99mTc (tricine) (TPPTS)

<220>
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 <222> (1)..(5)
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<220>
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 <222> (4)..(4)
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<220>
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 <223> ([2-[[[5-carbonyl]-2-pyridinyl]hydrazono]methyl]-benzenesulfonic acid])

<400> 50

Xaa Gly Asp Phe Lys
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<210> 51
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 <212> PRT
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<220>
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<220>
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 <223> 99mTC (tricine) (1,2,4-triazole)

<220>
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<220>

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<222> (4)..(4)

<223> (N-[[5-[carbonyl]-2-pyridinyl]diazenido]-3-aminopropyl)

<220>

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<222> (4)..(4)

<223> D amino acid

<400> 51

Arg Gly Asp Tyr Val

1 5

<210> 52

<211> 11

<212> PRT

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<220>

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<220>

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<222> (1)..(1)

<223> (DOTA-111In)

<220>

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<222> (2)..(6)

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<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(11)

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<220>

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<222> (11)..(11)

<223> D amino acid

<400> 52

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe

1 5 10

<210> 53

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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<222> (1)..(5)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> D amino acid

<220>

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<223> (DTPA-111In)

<400> 53

Arg Gly Asp Phe Lys

1 5

<210> 54

<211> 5

<212> PRT

<213> Artificial Sequence

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<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> 2 (DTPA-111In)

<400> 54

Arg Gly Asp Phe Lys

1 5

<210> 55

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

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<221> MISC_FEATURE

<222> (4)..(4)

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<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> (DTPA-153Sm)

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Arg Gly Asp Phe Lys
1 5

<210> 56

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

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<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> 2 (DTPA-153Sm)

<400> 56

Arg Gly Asp Phe Lys
1 5

<210> 57

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

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<220>

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<222> (4)..(4)

<223> (N-DTPA(153Sm)-3-aminopropyl)

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> D amino acid

<400> 57

Arg Gly Asp Tyr Val
1 5

<210> 58

<211> 5

<212> PRT
 <213> Artificial Sequence

<220>
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 <223> cyclic amino acid

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> D amino acid

<220>
 <221> MISC_FEATURE
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 <223> (DTPA-177Lu)

<400> 58

Arg Gly Asp Phe Lys
 1 5

<210> 59
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (6)..(6)
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<220>
 <221> MISC_FEATURE
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<220>
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 <222> (11)..(11)
 <223> D amino acid

<400> 59

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
 1 5 10

<210> 60
 <211> 5

<212> PRT
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<220>
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<220>
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 <222> (4)..(4)
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<220>
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 <223> 2 (DTPA-177Lu)

<400> 60

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 1 5

<210> 61
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<220>
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<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> (N-DTPA(177Lu)-3-aminopropyl

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> D amino acid

<400> 61

Arg Gly Asp Tyr Val
 1 5

<210> 62
 <211> 11
 <212> PRT
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<223> (DOTA-90Y)

<220>

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<220>

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<222> (6)..(6)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (7)..(11)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (11)..(11)

<223> D amino acid

<400> 62

Glu Lys Arg Gly Asp Phe Lys Arg Gly Asp Phe
1 5 10

<210> 63

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MISC_FEATURE

<222> (1)..(5)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> (N-DTPA(Gd(III))-3-aminopropyl)

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> D amino acid

<400> 63

Arg Gly Asp Tyr Val
1 5

<210> 64

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

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<223> 1-(1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamino)-12

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<221> MISC_FEATURE

<222> (1)..(5)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

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<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> dodecane-1,12-dione

<400> 64

Arg Gly Asp Phe Lys

1 5

<210> 65

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> MISC_FEATURE

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<223> 1-(1,2-Dipalmitoyl-sn-glycero-3-phosphoethanolamino)-12-(omega-amino-PEG3400-alpha-carbonyl)

<220>

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<222> (1)..(5)

<223> cyclic amino acid

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> D amino acid

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> dodecane-1,12-dione

<400> 65

Arg Gly Asp Phe Lys

1 5

<210> 66

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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 <223> cyclic amino acid

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> D amino acid

<220>
 <221> MISC_FEATURE
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 <223> 2)-Dodecane-1,12-dione

<400> 66

Glu Arg Gly Asp Phe Lys
 1 5

<210> 67
 <211> 16
 <212> PRT
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<220>
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<400> 67

Met Trp Tyr Arg Pro Asp Leu Asp Glu Arg Lys Gln Gln Lys Arg Glu
 1 5 10 15

<210> 68
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 68

Ala Gln Leu Ala Gly Glu Cys Arg Glu Asn Val Cys Met Gly Ile Glu
 1 5 10 15

Gly Arg

<210> 69
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 69

Ala Pro Ser Gly His Tyr Lys Gly
 1 5

<210> 70
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 70

Lys Arg Thr Gly Gln Tyr Lys Leu
1 5

<210> 71
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<220>
<223> Synthetic Construct

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<400> 71

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1 5

<210> 72
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<220>
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<223> cyclic amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> D amino acid

<400> 72

Arg Gly Asp Arg Gly Asp
1 5

<210> 73
<211> 6
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73

Arg Gly Asp Arg Gly Asp
1 5

<210> 74
<211> 5
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<220>
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<220>
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<220>
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<223> Xaa = methoxy-trimethylbenzenesulfonyl

<400> 74

Ala Arg Gly Asp Xaa
1 5

<210> 75
<211> 11
<212> PRT
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<220>
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Cys Asp Cys Arg Gly Asp Cys Phe Cys
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Cys Asn Gly Asp Cys
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Arg Gly Asp Tyr Val

1 5

<210> 83

<211> 5

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 acid]-18-amino-14-aza-4,7,10-oxy-15-oxo-octadecoyl)-3-aminopropyl
)

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Tyr Val Arg Gly Asp
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Arg Gly Asp Tyr Lys
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Arg Gly Asp Phe Lys

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<210> 93

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Lys Val Arg Gly Asp
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Glu Lys Val Arg Gly Asp Lys Val Arg Gly Asp
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<400> 112

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